THE TECH

VOL. XXVIII. No. 6 BOSTON, MASS., MONDAY, OCTOBER 12, 1908 PRICE THREE CENTS

UNION ADOPTS NEW CHECKING SYSTEM

Checks to be Given to Each Man and Money to be Paid at Door

POPULARITY CONTINUES

1200 Meals Served Daily—Paying Expenses—Offices Much in Demand

Successful beyond all expectations, the new Union has proved, in the time it has been running, that its first popularity was not due merely to novelty. Dining room and club room alike have been a benefit to a large number of men and are used to their full extent. The service in the dining room has improved wonderfully and the few faults which were found when it first opened are being remedied.

A new system has been adopted in regard to the service which will make it much simpler and more rapid. Instead of receiving pay when taking the order, waiters will give a check punched with the price of the food. When leaving the room, this amount is to be paid to the cashier in either lunch checks or money. There may be a little crowding at the door as a result of this system, but the two cashiers who will be there at noon will minimize this trouble and the waiters will be relieved of the necessity of taking checks and handing them in and having the food checked as they take it from the kitchen. Thus much time and trouble will be saved.

Although the food served at the present Union is much better than that which was served at the old, the large number served has made the preparation much more economical. While at the old Union there was a loss of two or three hundred dollars a year, the present one has paid expenses and up to date has even been able to make a small profit with the prices as low as they are. There have been about 150 men each morning and evening and 800 or 900 at noon. The lunch counter service, as was expected, has proved less popular than the waiter service, and is not patronized except between meal hours when there are no waiters. This is only a small part of the time, however, as there is service for lunch at the tables as early as 11.30 although it is not scheduled to begin till twelve.

With the new system of paying, the present cashier's desk will not be used

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COLLEGIANS ADDRESSED

Welcomed by Walker and Technology Clubs at Meeting

College men at the Institute were given a cordial reception to their new alma mater last Friday by the Walker and Technology Clubs at the rooms of the latter. Brief addresses by the presidents of the enter and ariving clubs, by Dean Burton and Olin Roberts 1888, were followed by refreshments and a social hour.

President Turner of the Walker Club as spokesman of the evening brought to his task a plentiful supply of humor and in his opening remarks referred to his own experience as a college man at Tech. James F. Norris, president of the Technology Club, then extended a hearty welcome not only to the Institute but to Boston as well. He spoke of the firm loyalty to alma mater which binds together Tech alumni and of the fine sense of comradeship at the Institute. Continuing, he urged the men to become acquainted with Boston and its surroundings. Time should be taken, perhaps a portion of a Sunday now and then, to visit the various points of literary and historical interest which cluster in and about the Hub.

(Continued on page 2.)

FALL HANDICAP ENTRIES YET OPEN

Books at Union and Field Contain Few Names at Present

FRESHMAN ENTRIES

Last Year's Distance Men All Back on the Cinders New Men Out

Entries for the Fall Handicap which will take place at the Brookline field a week from next Saturday will close the first part of next week and the first track meet of the year should bring out a big bunch of new men; in fact the purpose of this meet consists mainly in bringing out the athletes of the entire class, giving them all a fair chance to win their class numerals.

The class insignia are awarded to the men finishing first, second and third in their respective events, the winner receiving in addition an M. I. T. A. A.

The handicaps are arranged by Coach Frank Kanaly, and are made up carefully. His knowledge of the ability of last year's men will influence him to compel the old stars who are entered to start scratch, and the freshmen have a chance to spring some startling surprises. M. G. Woodward, the manager of the 1912 tug-of-war team has entered in all the weight events, and numerous other freshmen have either entered or expressed their intention of entering some of the events. Up-to-date they have S. B. Walker, N. Herreshoff and A. Means in the sprints, but no men in the quarter or half mile. W. S. Davis is their only man in the mile and two-mile, but in the high hurdles they furnish the only entries to date. L. S. Hooper, B. Ruby and H. Greenleaf are the new men in this event, and according to Coach Kanaly, furnish likely material to develop into meet winners.

As yet no pole vaulters have developed, but W. D. Allen 1911 is hard at work and is clearing the bar at eleven feet.

The high jump brings out two more freshmen, L. S. Hooper and W. S. Davis, the weight events, M. G. Woodward and H. E. Kebbon.

Manager K. D. Fernstrom is making every effort to get a line on the men who will compose the track team next spring, and all men at the Institute, especially the new men, are urged to enter the approaching meet.

COACH KANALY TALKS

Track Men Tell Past Experiences at Saturday's Dinner

Forty-three supporters of cross-country running gathered at the Union last Saturday night at the first dinner given by the Hare and Hounds Club. Coach Kanaly gave a very interesting talk on his career as a runner which started with the winning of a run from a Cambridge gymnasium, where he was training for a ten-mile bicycle race at Dedham. He told of his early races as an amateur, when he ran against the Grant brothers from Harvard and Penn., of his famous victory at the Pan American Exposition. He told of the manner in which he became a professional runner, and of his first race against men who make a business of distance running. He ended his talk in an appeal to the cross-country men to come out for regular practice, saying that the only way to beat Harvard on November 6 would be to become perfectly familiar with the course and train regularly.

F. H. Hunter 1902 and A. R. Hunter 1908, who got out the record squad of 63 men for a hare and hounds run in the fall of 1905 also spoke on how they became cross-country runners.

J. N. Stephenson 1909, chase captain

(Continued on page 4.)

INVESTIGATIONS OF BROKEN RAILS

Results of Thesis Work Likely to Become of Great Importance

NEW DANGER FOUND

Impurity Formerly Thought to be Harmless is Found the Cause

An unexpected source of danger was found to exist in the presence of maganese sulphide in rails by R. W. G. Wint 1908 in his thesis on the study of the cause of broken rails. The investigations were conducted under the direction of Prof. Fay of chemical department.

Manufacturers have considered manganese sulphide harmless, but a thorough series of microscopical examinations has shown that in spite of excellent heat treatment nearly all crescent shaped fractures start out along the long thin streaks of manganese sulphide, from whence they extend into the steel itself. The relatively large amount of this impurity found in many of the rails is attributed to the undue haste of the manufacturer in not giving enough time after the addition of ferromanganese to allow the sulphide to come to the surface when the iron is in the molten state which it will do because of its much lower specific gravity.

The reason that the manganese sulphide is such a factor of danger arises from the fact that it does not become an integral part of the whole and, instead, isolates itself in long threads. This is because its melting point is lower by three hundred degrees than that at which the rolling of rails begins. This extends the sulphide in the direction of the rail with consequent danger to its life.

Mr. Wint, who is now an assistant in quantitative analysis, is still continuing his investigations with Prof. Fay both at the Institute and at the Watertown Arsenal. It is hoped that the thorough treatment of this will throw additional light on a question that will be of great moment to the greater part of the commercial world as well as an important factor in the problem of public safety.

ELECTRICALS MEETING

Prominent Course VI Men Will Speak on Railroads

At their first meeting of the season at the Union next Thursday evening the members of the Electrical Engineering Society will listen to talks by A. R. Knipp 1909, K. S. May 1909, and Mr. Hathaway on the respective subjects of "Baltimore Railroad and Lighting Properties", "Block Signals on the Boston and Worcester Railroad", and "Quincy Point Power Station." President John Mills 1909 will call the meeting to order at 7.45.

All course VI men of 1909 and 1910 are urged to attend this meeting. A short but important business session will be held after the addresses of the evening and light refreshments will be served when the business has been transacted.

COMPETITION BEGINS

Assistant Manager of the track and cross-country teams will be elected in February. Competition for this position is now open. All who wish to be candidates should leave their tabular views at the Cage by Thursday for Karl Fernstrom 1910, the present manager.

Men who send in their names should call daily for instructions. The candidates will be assigned duties at once and the asistant manager will be elected on the showing he makes this fall.

NEW INNOVATION IN TUG-OF-WAR

Three Trials to Take the Place of the Single One Last Year

FRESHMAN FOOTBALL

Relay Work Suspended Saturday But Both Teams Expected Out Today

An important change has been made this year in the rules for the tug-of-war on Field Day. Three chances are to be given to each team instead of one, one try to take place before the football game, one between the halves, after the relay race, and another if necessary after the game. This will avoid all chance of a repetition of the event as it happened last year when the class of 1910 was pulled four and a half feet, within six inches of the line, and then defeated the other class by pulling them steadily ten feet. At the time the members of the defeated team felt that they should have won the event. The present system will give each team plenty of chance to show what it is made of, and will leave no doubt as to the superiority of the one

The freshmen still continue to send out a larger number of candidates for the event than the sophomores, although the latter class has been sending out more men than formerly. The freshmen who have been coming out regularly and upon whom manager Woodward depends mostly are: W. D. Blaisdell, L. B. Duke, P. W. Dalrymple, C. A. Duyser, J. W. Montgomery, G. S. Sawyer, C. S. Weber and H. L. Woehling.

Football

Manager Gale, of the freshman team has announced a promising schedule for his team during the next few weeks. The first game is arranged with Hyde Park High, at Hyde Park, but it is uncertain whether it will be played. If the Hyde Park team fears the freshmen as much as Natick High and Revere High did the Sophs last Saturday, there will surely be no game.

The schedule follows: Wed., Oct. 14, Hyde Park at Hyde Park; Sat., Oct. 17, 1909 at the Field; We., Oct. 21, Mechanics Arts High at Field; Sat., Oct.

(Continued on page 3.)

SOPH NOMINATIONS

Few Candidates for Some of the Class Offices

At 2 o'clock Friday, the 1911 nomination committee took charge of the following names, which will appear on the ballot in the coming year for class officers.

For president: L. G. Odell, W. C. Salisbury, B. Lawrence.

For vice-president: T. B. Parker, G. B. Curwin, N. DeForest, F. A. Wood.

For Secretary: H. L. Robinson, C. S. Anderson, P. D. White, N. DeForest, H. D. Williams, W. H. Hildebrand.

For treasurer: L. G. Glazier, S. B. Copeland.

For Institute Committee (2 to be chosen): C. H. Merrill, D. R. Stevens, W. J. Seligman, K. Barr, G. C. Kenney, S. P. Kimball.

For Athletic Association (5 to be chosen): G. A. Cowee, T. B. Parker, W. C. Salisbury, W. J. Seligman, P. D. White, J. H. Scoville, W. Hildebrand, O. Hutchins, E. D. Van Tassell.

For directors (2 to be chosen: L. C. Cooley, W. W. Warner, H. M. Davis.

For clerk: K. Greenleaf, D. R. Stevens.

Regarding the qualifications of the three candidates for president, their record since coming to Technology stands about as follows: Odell was manager of last year's football team, and played first base on the baseball team; Salisbury ran on the class relay team last

(Continued on page 3.)

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COLLEGIANS

(Continued from page 1.)

President Norris said that, in spite of opinions to the contrary, the provertial unsociableness and ill breeding of Bostonians had no real existence. He thought that we must accept as true, because told him by no less a person than Editor Buck of the Ladies' Home Journal, the story of a chamber maid in a certain Boston hotel who discussed classical music with one of the guests whose room she was cleaning and that of the Boston coachman who was anxious to find someone to argue Herbert Spencer with him. Yet he believed that Bostonians would be found on the whole a very well bred people and that their coldness of exterior would wear off on closer acquaintance. In conclusion he expressed the wish that the years which the men had to spend at the Institute would be full of happiness and success.

Dean Burton was next introduced as "the best dean of all". He alluded first to the impression which students are apt to get that the faculty is a body of inhuman task masters. Now that the men had run the gauntlet of registration he was there to assure them that the faculty is after all human, that its members are men among men and that its feeling toward the student is one of sympathy and friendliness although its requirements may at times seem severe. Dean Burton referred to one point of difference between Tech and the college, in that the bitter rivalries of the latter are here replaced by a general friendliness for all. He emphasized very strongly the importance of the social activities of the Institute. One object of the Technology and Walker Clubs in holding this reception was to bring the new college men together and to get them acquainted with each other. The seed which these clubs had sown must however be watered by the individual student. The men should join a club of some kind or other, either a club of men from the same part of the world or a departmental club.

The next speaker, Olin Roberts, has the distinction of being one of the only two college members who were at the Institute twenty-three years ago. He gave a forceful presentation of the subject of the educational value of science. He said that the great gain to be had through scientific training was in the development of honesty of thought, the power of collecting all the facts which in any way relate to a given situation, the ability to deal squarely with those facts and the willingness at all times to add new data or to accept unexpected resuts.

At the close of Mr. Roberts' address President Turner of the Walker Club tendered Pres. Noyes' regrets at not being able to be present at the reception.

The engagement is announced of Miss Elise Parkinson of Newton Centre to Frank Spencer Arend 1910 of Waban. Arend left Tech last year to enter the lumber business with his father.

CALENDAR

Monday, October 12

1.00 P.M. Exeter Club meeting, 26 Rogers.

Tuesday, October 13

4.00 P.M. Dr. White, Health lecture, in Huntington Hall.

8.00 P.M. Catholic Club meeting at the Union.

4.15 P.M. Tenors of Glee Club, meet at the Union.

Wednesday, October 14

4.15 P.M. Basses of the Glee Club, at Union.

UNION ADOPTS

(Continued from page 1.)

as such but as a serving table which will be a still further aid in saving time and trouble. The only difficulty at present is the lack of waiters. It was the idea of the Union committee to help students by giving them this chance to earn a little money, but it will probably be necessary to resort to professionals if the men do not take advantage of this opportunity.

In less than two weeks since the Institute has been open there has been the Y. M. C. A. reception, the freshman dinner, the M. E. dinner, the M. A. H. S. Club dinner, the British Empire Association meeting and a number of others at the Union. It is not the idea of the committee that the club rooms shall be used by the different organizations, although the big dining room, one of the smaller rooms upstairs, and 11 Pierce are at their disposal any evening upon application to the Bursar. The trophies which were in the trophy room and the rest of the banners from the old Union are to be hung in the club room. A file of the papers of different colleges has been placed there by The Tech and is kept up-to-date.

There are four offices in the building, one of which is already occupied by The Tech, the other three to be divided among the other activities of the Institute. The Tech Show, Technique, and the Institute Committee are to be given room, and a desk is to be given to the musical clubs, track team and other organizations. There is a little room over the stairs which, it is hoped, may be secured for an office for one of these. This is entirely in the hands of the Institute Committee, who have charge, through a sub-committee, of the disposal of office room.

The Institute Committee has petitioned the faculty for the use of 11 Pierce for an Alumni Room in which the bookkeeping of the different activities may be done. The books of the Show are at present all kept by this way and it has proved entirely satisfactory. It relieves the business manager of a large amount of work and it is hoped that other activities will adopt this system.

SOPH NOMINATIONS

(Continued from page 1.)

year and was elected captain of this season's team, was a member of the varsity relay that entered the Penn relay carnival, scored in all the dual meets and won a place in the pole vault in the intercollegiates, has won his T and is one of the class delegates to the M. I. T. A. A. Lawrence was captain of last year's tug-of-war and represented 1911 on the Institute Committee.

CATHOLICS MEET

Tuesday evening at 8 P. M. in the Union the Catholic Club will hold its first meeting of the season. This meeting will be entirely social in every way, having for its main object "Making the acquaintance of everyone present and promoting good fellowship."

At the Club's meeting last year the members derived immense benefits. They were brought into social contact with each other, while a speaker on some subject of unusual interest would in a short time add much to their happiness, both physical and mental.

It is hoped that every Catholic in the Institute will be present, especially the new men, for they can derive the greatest pleasures.

The men need not forget that refreshments will be provided to help make them enjoy themselves.

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TURBINE INSTALLED

Westinghouse-Parsons Engines in Engineering Laboratory

Instruction in steam turbine engineering at the Institute has kept abreast of the development of the art, ever since its important applications in manufacturing and transportation have been recognized. Within a year two things have been accomplished which have placed the work on a very satisfactory basis. The first of these is the rewriting of Professor Peabody's "Thermodynamics of the Steam Engine," including a chapter which places the computations for the steam turbine on the same plane as for all the other heat engines. His Tables of the Properties of Steam have also been recomputed and a table of temperature and entropies.

The second is the erection of a 500 kilowatt Westinghouse-Parsons turbine in the engineering laboratories of the Institute. In the installation of a turbine of such power the Institute has adhered to its custom of making experiments on such a scale that results shall be of real value and some excellent information will soon be obtainaed. such as is at present only to be had from turbine builders.

The turbine just installed has a capacity of 500 K. W. and has three diameters of rotor. It is arranged so that either saturated or superheated steam may be used, the superheater having a capacity of 10,000 pounds of steam per hour at a pressure of 250 pounds per square inch, superheated 250 degrees Fahrenheit. The turbine is set on an I-beam foundation, thus leaving the space beneath it open. The floor is of cinder concrete, five inches thick, and stiffened at the points where the load is applied by the I-beams, resting on piers built in the sub-basement. Thus all the small piping and connections underneath are exposed.

The condenser is one of the latest designs of the Alberger Company, with steam entering at the bottom and hot water beneath the steam opening. The water for the condenser is drawn from a canal in the sub-basement connecting with the reservoirs in Pierce and Engineering A, and the condensed steam is discharged into tanks on scales and weighed.

A water brake designed by the Westinghouse Company acts as an absorber for the power. Over the turbine has been erected a two-trolley crane of six tons capacity.

In Steam Turbine Engineering a new option is offered which is in the hands of Professor Peabody, assisted by Mr. H. A. Everett and Mr. L. H. Sutton 1908. The new course has been offered to increase the time given to the options in Mechanical Engineering.

CALLED TO WASHINGTON

William Duncan Lynch 1904, has left Boston to assume the position of analitical chemist in the Department of Agriculture at Washington. Lynch paid special attention to organic chemistry while at Technology and since leaving has specialized in the analysis of food.

NEW INNOVATION

(Continued from page 1.)

24, Bridgewater Normal at Bridgewater; Wed., Oct. 28, Dean Academy at Franklin; Sat., Oct. 31, Lowell Textile at Lowell.

The sophomores have many good players among the candidates for the team, and the attendance is more regular than on any of the teams. Fifteen men turned out Saturday afternoon, and Coach Simons put them through some practice of kicking the ball and of falling on and recovering the pigskin.

Relay

The relay men are showing up in larger numbers than formerly, but the list of freshmen is still small compared to that of the sophomores.

H. S. Benson
Manager 1912 Relay

The 1911 aggregation have the advantage of showing such men as Salisbury, Dolke, Stevens, White, Gould, Cooley and Seligman to rely upon. All these men ran in last year's relay, when such fast time was made, and unless the freshmen develop wonderfully before November 6, they will surely be left half a lap behind.

CROSS COUNTRY RUN

On the hare and hounds run for the rest of the season the hounds will be divided into two squads. This plan was tried Saturday in the run at Waban. Thirty-two men were out

N. Ranschoff 1910 and H. G. Jenks 1911, laid a 4 1-2 mile trail through the woods and over the golf links. E. Jacobs 1910 and W. T. MacCreadie 1911 found the bags.

In the race for home, L. O. Mills 1910 got first place with P. D. White 1911, J. N. Stephenson 1909, C. L. Campbell 1909, E. Jacobs 1910, and V. V. Ballard following in the order named.

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NOTICES

1910 NOMINATIONS—Nominations for class officers of the junior class will close Wednesday, October 14 at 1 P. M.

Nominations must be signed by ten men and only ten.

All nominations are subject to the office-holding regulations of the Institute Committee and will be passed upon by that body.

The following officers are to be elected: President, vice-president, secretary, treasurer, executive committee (2 members), Institute Committee (2 members), Athletic Association (5 members).

Notices of elections and time of closing and place of polls will be announced in the Wednesday issue of The Tech.

Nominations must be left at Cage for
1910 Committee on Elections,
Tom W. Saul, Pres.

FIELD DAY, 1908—Proposals in writing, for the right to publish the official program, will be received up to 10 A.M., Thursday, October 15th. Address to:—
Mr. Frank H. Briggs,
22 High Street,
Boston, Mass.

CROSS-COUNTRY—Two squads will take a short run from the gym today. The first leaves at 4.15 under Capt. Ellis, the second at 5.15 under chase captain Stephenson.

Tomorrow there will be a walk over the Harvard course, leaving Back Bay station at 4.22 P.M.

On Wednesday the squad will run over the course, leaving the station on the 4.22 train.

PHYSICAL TRAINING—All freshmen who wish to substitute athletics for the compulsory gymnasium work must report to Mr. Kanaly, director of athletics, at the Field Thursday between 4 and 6 P.M. Further notice will appear in the Tech on Wednesday.

FACULTY NOTICES

PERSONAL HYGIENE—Lecture by Dr. White tomorrow at 4.00 in Huntington Hall.

GERMAN—Dr. Schumacher's conversational talks on German life and institutions will begin today at 4 P.M. in 25 Lowell.

COACH KANALY TALKS

(Continued from page 1.)

spoke of the necessity of learning to run by running races, urged new men to make a start now and to keep in the game so as to replace the men who leave, and announced this week's schedule. C. P. Eldred 1911, L. O. Mills 1910, P. D. White 1911 and J. D. MacKenzie 1911 also spoke of their experiences as runners. Karl D. Fernstrom urged a large attendance at the hare and hounds runs and the spreading of the popularity of cross-country running throughout the Institute, especially in the lower classes.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

FOUND—Bunch of keys with tag of Bay State Trust Co. deposit vaults. Owner may find at Information desk.

FOUND—On the night of the Freshman dinner a gray soft felt hat was found. This hat may be had by applying to The Tech and proving property.

DRILL SUITS—For Sale, 2nd Lieut's, five feet six inches; Corp's, five feet six inches; Private's, five feet eight inches. Apply H. C. Davis, Box 44, The Cage.

1912 LETTER PLATES FOR SALE—A set of plates used slightly for one year. Will sell cheap. Apply to B. F., care of The Tech, No. 30 C.

DRILL Suit for sale CHEAP. Corporal stripes and cap. Last chance to get your suit before the next drill. Apply to M. W. H., care of The Tech. 30 C.

FOUND—A real fountain pen. The Parker Lucky Curve Pen will last you a lifetime and will do all the work you require of it if you will fill it with good ink when empty. See G. B. Forristall about these pens. $1.50 and more. more.

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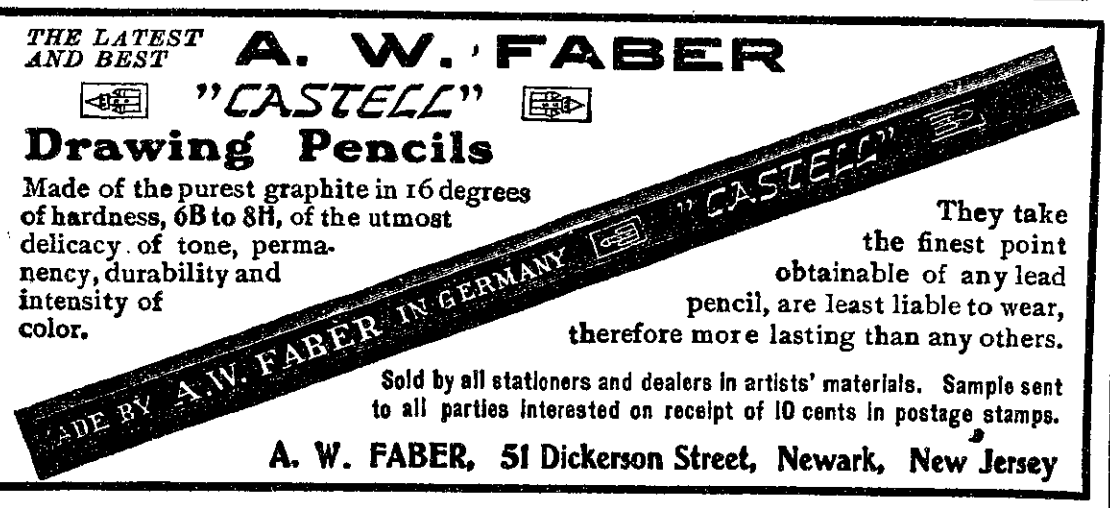

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The cost is moderate, only five cents per line of six words. See the Assistant Business Manager of The Tech about this.